

What is claimed is:

1. A chip antenna comprising:

a base member which is composed of dielectric or magnetic material and which has a stacked structure including a plurality of layers;

5 a plurality of pattern antennas which are formed on a plurality of layers and which have predetermined patterns, respectively, and of which at least parts of said predetermined patterns are not overlapping with each other in the stacked direction of a plurality of layers; and

a feeding terminal which is formed on a surface of said base member and which is connected to a plurality of pattern antennas.

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2. A wireless communication device in which said chip antenna as claimed in claim 1 is used.

3. A chip antenna unit having predetermined frequency characteristics, comprising:

a mounting substrate;

5 a base member which is mounted on said mounting substrate and which is composed of dielectric or magnetic material;

a pattern antenna which is formed on said base member;

a feeding terminal which is formed on a surface of said base member and which is connected to said pattern antenna;

10 a fixed terminal which is formed on a surface of said base member and which is connected to said pattern antenna;

a fixing portion which is composed of a conductor and which is formed on said mounting substrate and which is connected to said fixed terminal and thereby fixes said base member on said mounting substrate; and

said predetermined frequency characteristics being adjusted by changing
15 an area of said fixing portion.

4. A wireless communication device in which said chip antenna unit as
claimed in claim 3 is used.

5. A chip antenna unit having predetermined frequency characteristics,
comprising:

a mounting substrate;

a base member which is mounted on said mounting substrate and which
6 is composed of dielectric or magnetic material and which has a stacked
structure including a plurality of layers;

a plurality of pattern antennas which are formed on said a plurality of
layers and which have predetermined patterns, respectively, and of which at
least parts of said predetermined patterns are not overlapping with each
10 other in the stacked direction of said a plurality of layers;

a feeding terminal which is formed on a surface of said base member and
which is connected to said pattern antenna;

a fixed terminal which is formed on a surface of said base member and
which is connected to said pattern antenna;

15 a fixing portion which is composed of a conductor and which is formed on
said mounting substrate and which is connected to said fixed terminal and
thereby fixes said base member on said mounting substrate; and

said predetermined frequency characteristics being adjusted by changing
an area of said fixing portion.

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6. A wireless communication device in which said chip antenna unit as
claimed in claim 5 is used.

7. A chip antenna comprising:
- a base member which is composed of dielectric or magnetic material;
 - a pattern antenna which is formed on said base member and which includes a first area having a rectangular shape and a second area
 - 5 elongating continuously from said first area; and
 - a feeding terminal which is formed on a surface of said base member and which is connected to said pattern antenna.
8. A chip antenna as claimed in claim 7, wherein a slit is formed between said first and said second areas of said pattern antenna.
9. A chip antenna as claimed in claim 7, wherein said chip antenna further comprises the other pattern antenna having a shape other than that of said pattern antenna.
10. A chip antenna as claimed in claim 8, wherein said chip antenna further comprises the other pattern antenna having a shape other than that of said pattern antenna.
11. A wireless communication device in which said chip antenna as claimed in claim 7 is used.
12. A wireless communication device in which said chip antenna as claimed in claim 8 is used.
13. A wireless communication device in which said chip antenna as claimed in claim 9 is used.